

ABSTRACT OF THE DISCLOSURE

A method and solution for perioperatively inhibiting a variety of pain and inflammation processes at wounds from general surgical procedures including oral/dental procedures. The solution preferably includes at least one ~~pharmacological agent selected from the group consisting of a mitogen-activated protein kinase (MAPK) inhibitor, an α_2 -receptor agonist, a neuronal nicotinic acetylcholine receptor agonist, a cyclooxygenase 2 (COX-2) inhibitor, a soluble receptor and mixtures thereof, and optionally additional multiple pain and inflammation inhibitory agents~~ tumor necrosis factor (TNF) soluble receptor at dilute concentration in a physiologic carrier, such as saline or lactated Ringer's solution. The solution is applied ~~by continuous irrigation of a wound~~ locally and perioperatively to a surgical site during a surgical procedure for preemptive inhibition of pain and while avoiding undesirable side effects associated with oral, intramuscular, subcutaneous or intravenous application of larger doses of the agents.

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